

**Joint Base Myer-Henderson Hall
VSMP MS4 General Permit
2014 Annual Report**

A. Background Information.

1. **Facility Name:** Joint Base Myer-Henderson Hall (formerly known as U.S. Army Garrison Fort Myer)
Permit Number: MS4 General Permit VAR040068
2. **Annual Report Permit Year:** 2013-2014 (Period of Report: 1 July 2013 – 30 June 2014)
3. **Modifications to roles and responsibilities:** In 2013, Directorate of Environmental Management (DEM) was reorganized as the Environmental Management Division (EMD) under the Directorate of Public Works (DPW). Mr. Richard P. LaFreniere, who was DEM Director, remains in the lead role for the EMD as Chief. Colonel Michael D. Henderson assumed the role of Joint Base Commander on 27 August 2014. This command was previously held by COL Fern O. Sumpter. COL Henderson is the signatory authority in accordance with the General Permit requirements.
4. **Number of New MS4 Outfalls:** No newly constructed outfalls were added during the permit year 2014 period (1 July 2013 – 30 June 2014).
5. **Signed Certification**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Name: Michael D. Henderson, COL, US Army Commanding
Title: Commander, Joint Base Myer-Henderson Hall

Signature: _____

Date: _____

Michael D. Henderson

29 Sep 14

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B. Permit Conditions Compliance Assessment.

- 1. Status of Compliance with MS4 Permit Conditions.** A summary of compliance with the MS4 permit conditions is documented in **Attachment 1**. The summary provides the required annual report documentation specified in Section II of the 2013 MS4 General Permit for Joint Base Myer-Henderson Hall (JBM-HH). In general, there were some compliance difficulties related to the timely implementation of some program elements. EMD's former Stormwater Program Manager departed in late 2013, and some momentum was lost during the transitioning of her duties and obtaining replacement support. EMD obtained additional contractor support in late August 2014, and EMD is working diligently to address the deficiencies and bring the program into full compliance.
- 2. Best Management Practice (BMP) Assessment.** The BMPs identified in JBM-HH's MS4 Program Plan were assessed for their effectiveness at preventing stormwater pollution. At this time, the BMPs appear to be effective at controlling stormwater pollution; new BMPs will be developed and implemented in the future if the current BMPs are deemed to be ineffective.
- 3. Progress towards Achieving Measurable Goals.** **Attachment 2** presents a summary evaluation of JBM-HH's progress towards achieving the measurable goals contained in the approved MS4 Program Plan.

C. Results of Information Collected and Analyzed, including Monitoring Data, if any, during the Reporting Period.

Stormwater benchmark monitoring is required under JBM-HH's Industrial Stormwater General Permit (VAR05), which is administered by the Virginia Department of Environmental Quality (DEQ). This permit was recently reissued, and JBM-HH obtained coverage under the new permit, effective 1 July 2014 (VAR051296). The permit that expired on 30 June 2014 required that the two regulated outfalls be monitored annually for total suspended solids (TSS) and total petroleum hydrocarbons (TPH). Monitoring was not required under the permit for the period of 1 January 2014 – 30 June 2014. Monitoring results from calendar year 2013 were discussed in the 2013 MS4 Annual Report. The reissued permit requires that the two regulated outfalls be monitored semiannually for TSS, TPH, total nitrogen (TN) and total phosphorus (TP). The first monitoring period began 1 July 2014. Results from monitoring conducted during the period 1 July 2014 – 30 June 2015 will be summarized in the 2015 MS4 Annual Report.

The Industrial General Permit also requires that quarterly visual stormwater monitoring be conducted at the regulated outfalls. No indications of stormwater pollution were identified during visual monitoring conducted during the previous year.

D. Future Stormwater Activities. During the next reporting period, illicit discharge tracking will be conducted in accordance with requirements identified in the new MS4 permit, effective 1 July 2013 – 30 June 2018. Stormwater monitoring will continue in compliance with JBM-HH's Industrial Stormwater General Permit. Ongoing and future construction activities will be routinely monitored for compliance with stormwater and erosion and sediment control permits. Routine inspections will be continued for JBM-HH's industrial activities. Public education and outreach activities, training, and other

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required actions related to the six minimum control measures will be implemented as described in the Installation's MS4 Program Plan.

E. Best Management Practices and Measurable Goal Modifications. BMPs for stormwater pollution prevention will be updated to conform to the requirements of the 2013 MS4 General Permit as appropriate. Details are provided in the Installation's MS4 Program Plan. The new program elements are being initiated as described in Section B of this report. At this time, no significant stormwater pollution concerns requiring modifications to measurable goals or BMPs have been identified.

F. Reliance on Another Government Entity to Satisfy Permit Obligations. The U.S. Army Corps of Engineers (USACE) is responsible for ensuring that contractors for construction projects under their oversight comply with the provisions of the MS4 permit as well as Federal and state stormwater regulations. JBM-HH EMD reviews projects for compliance and conducts periodic compliance inspections of construction activities.

Construction projects disturbing more than 2,500 square feet must obtain an approved erosion and sediment control plan and a Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Construction Activities. Virginia DEQ is the permit review and issuing authority for Construction General Permits, as JBM-HH is a federal entity.

G. The approval status of any programs pursuant to Section II C. There are no applicable programs that impact JBM-HH.

H. TMDL Special Conditions.

1. Part I.B, Special Conditions for Approved Total Maximum Daily Loads other than the Chesapeake Bay:

The MS4 General Permit requires permittees to address pollutants for which the MS4 has been assigned a wasteload allocation (WLA) in an approved TMDL (other than the Chesapeake Bay TMDL). There are no known WLAs assigned to JBM-HH, therefore this special condition does not apply.

If a WLA is assigned to JBM-HH in the future, the required TMDL Action Plan will be prepared and implemented.

2. Part I.C, Special condition for the Chesapeake Bay TMDL:

The MS4 General Permit requires preparation of a Chesapeake Bay TMDL Action Plan by 30 June 2015. JBM-HH will prepare the plan by the required date and submit the plan with the 2015 Annual Report, as required by the permit.

Attachment 1 - VSMP MS4 General Permit 2014 Annual Report

JBM-HH Minimum Control Measure Progress Evaluation

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JBM-HH Minimum Control Measure Progress Evaluation				
Permit Section: Requirement		Implementation Summary		
Minimum Control Measure 1: Public Education and Outreach on Stormwater Impacts				
Section II.B.1.g(1) : A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached.		A Public Education and Outreach Plan was prepared for JBM-HH in accordance with the requirements of the 2013 MS4 General Permit. Three high-priority water quality issues were identified and the target audiences were determined. Due to the reasons cited in Item B.1 of this Annual Report, the planned education and outreach efforts have not yet been initiated. During the next reporting period, EMD intends to make significant progress towards fully implementing the new Public Education and Outreach program.		
Section II.B.1.g(2): A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.		Education and Outreach activities planned for the next reporting and the estimated target audiences to be reached are summarized below:		
	High-Priority WQ Issue	Activity	Target Audience/Estimated Total Audience	Estimated % to be Reached
	Oil & grease, hydrocarbons and related pollutants	<ul style="list-style-type: none">• Revise relevant Stormwater Pollution Prevention brochures and redistribute• Publish one article in the <i>Pentagram</i>, JBM-HH's weekly newspaper• Post information on JBM-HH Facebook page regarding spill reporting and vehicle maintenance• Update web page with new information	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000	20% 20% 30%
	Sediment	<ul style="list-style-type: none">• Publish one <i>Pentagram</i> article• Provide additional employee training (DPW staff)• Prepare list of construction site inspection requirements for construction project managers• Update web page with new information	Civilian Employees/1,730 DPW Construction Project Managers and DPW maintenance employees/~100	35% 80%
	Trash and Litter	<ul style="list-style-type: none">• Post information on JBM-HH Facebook page regarding proper trash disposal and impact of litter• Publish one <i>Pentagram</i> article• Create relevant Stormwater Pollution Prevention brochure and distribute to new civilian employees and active duty military• Update web page with new information	Civilian Employees/1,730 Active Duty Military Population/~8,300 Residents/~1,000	35% 20% 40%
Minimum Control Measure 2: Public Involvement/Participation				
Section II.B.2.d(1): A web link to the MS4 Program Plan and annual report		http://www.jbmhh.army.mil/WEB/JBMHH/Directorates/EnvironmentalManagement.html		
Section II.B.2.d(2): Documentation of compliance with the public participation requirements of this section.		The recently updated MS4 Program Plan has been posted on the JBM-HH website. The Annual Report will be posted within 30 days of submission to DEQ. Earth Day activities were held that involved multiple organizations on the Installation. EMD is currently in the process of planning public involvement activities for the next year as described in the MS4 Program Plan.		
Minimum Control Measure 3: Illicit Discharge Detection and Elimination				
Section II.B.3.f(1): A list of any written notifications of physical interconnection given by the operator to other MS4s.		There have been no written notifications of interconnections issued. A site visit was conducted by Arlington County in June 2014 to review JBM-HH outfall locations and discharge area characteristics.		
Section II.B.3.f(2): The total number of outfalls screened during the reporting period, the screening results, and detail of any follow-up actions necessitated by the screening results.		Due to the reasons cited in item B.1 of this Annual Report, no outfalls were screened during the period 1 July 2013 – 30 June 2014. Thirteen of JBM-HH's 26 outfalls (50%) were screen during August-September 2014. The remaining outfalls will be screened by the end of the calendar year (31 December 2014). Conditions requiring follow-up actions were observed at three outfalls; work orders have been submitted to remove excess vegetation and sediment accumulation and repair age-related damage.		

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JBM-HH Minimum Control Measure Progress Evaluation

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Permit Section: Requirement	Implementation Summary
Section II.B.3.f(3): A summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.	No suspected illicit discharges were observed during this reporting period.
Minimum Control Measure 4: Construction site stormwater runoff control	
Section II.B.4.f(1): Total number of regulated land-disturbing activities	The only land disturbing activities during this reporting period were generally small utility repair/upgrade projects of less than one acre of disturbance.
Section II.B.4.f(2): Total number of acres disturbed	Less than 5 acres.
Section II.B.4.f(3): Total number of inspections conducted	No inspections were conducted during this reporting period; there were no projects that required a VPDES Construction Permit.
Section II.B.4.f(4): A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.	No enforcement actions were required during this reporting period.
Minimum Control Measure 5: Post-construction stormwater management in new development and development on prior developed lands	
Section II.B.5.e(9): the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance. The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report.	JBM-HH is a military installation. Inspection and maintenance of all stormwater management facilities on the Installation is the responsibility of the Directorate of Public Works (DPW). As such, maintenance issues are managed through the DPW work order process; enforcement actions are not applicable. A new system was developed to allow work orders related to permit compliance to be prioritized and elevated in the work order system to allow for timely completion. There were no new stormwater management facilities brought online during this reporting period.
Minimum Control Measure 6: Pollution prevention/good housekeeping for municipal operations	
Section II.B.5.g(1) A summary report on the development and implementation of the daily operational procedures	Daily operational procedures are currently under development and will be completed by the 30 June 2015 deadline. The procedures will address the required elements in the MS4 General Permit. The procedures will be developed with input from the affected DPW departments.
Section II.B.5.g(2) A summary report on the development and implementation of the required SWPPPs	A JBM-HH SWPPP that addresses all municipal operations for the Installation was prepared to comply with the Installation's VPDES Industrial Stormwater Permit. This SWPPP has been implemented since 2009 and has been routinely revised and updated; the most recent update was completed in June 2014.
Section II.B.5.g(3) A summary report on the development and implementation of the turf and landscape nutrient management plans that includes: (a) The total acreage of lands where turf and landscape nutrient management plans are required; and (b) The acreage of lands upon which turf and landscape nutrient management plans have been implemented	Turf and landscaped areas at the Installation are generally limited to small maintained yards and landscaped areas surrounding residences and buildings. The only large area that may have nutrient applications is the Summerall Field. This area is approximately 9 acres and is used for ceremonies, parades, and other similar activities. The coordinates for this area are: N38.881746, E-77.081838. The need for a nutrient management plan will be evaluated, and if a plan is required, it will be developed in accordance with the permit conditions.
Section II.B.5.g(4): A summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.	Annual stormwater pollution prevention and spill prevention training is provided for civilian employees and active-duty military personnel whose duties involve industrial and maintenance activities. The training addresses good housekeeping and pollution prevention. This training is deployed in a computer-based training format; after employees/personnel successfully pass an integrated test, a certificate of completion is generated. Since the training is computer based, training dates vary. During the last reporting period, thirty-six employees and active duty military personnel assigned to motor pool maintenance and DPW maintenance activities completed the training. An additional training module was recently developed to address additional information required by the 2013 MS4 General Permit. This training module will be deployed to DPW staff for completion no later than 31 December 2014.